

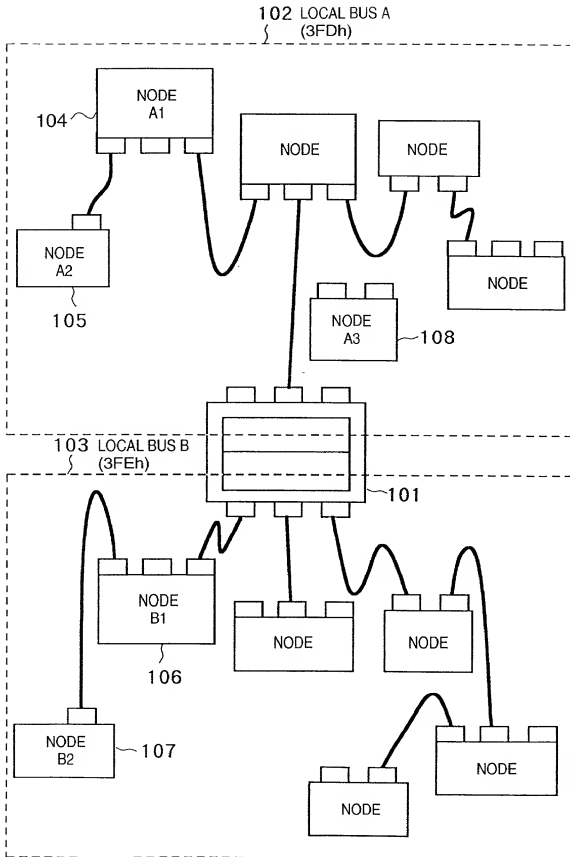
**FIG. 1**

FIG. 2

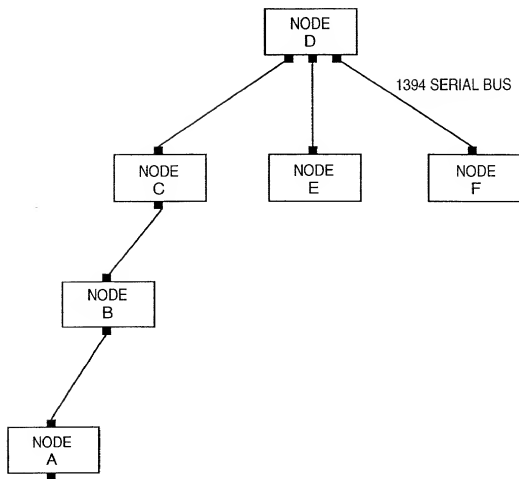


FIG. 3

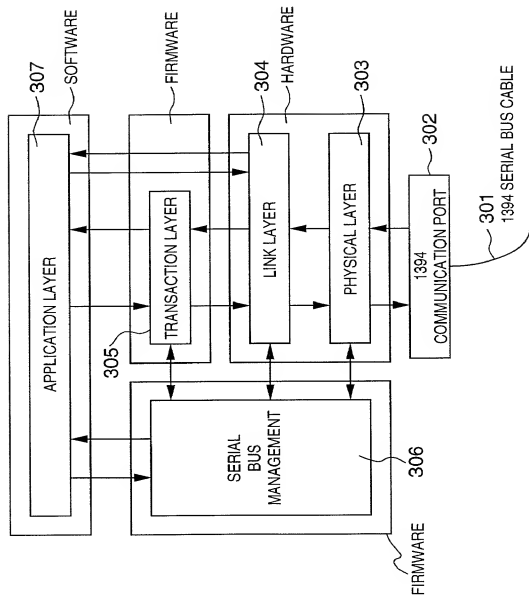


FIG. 4

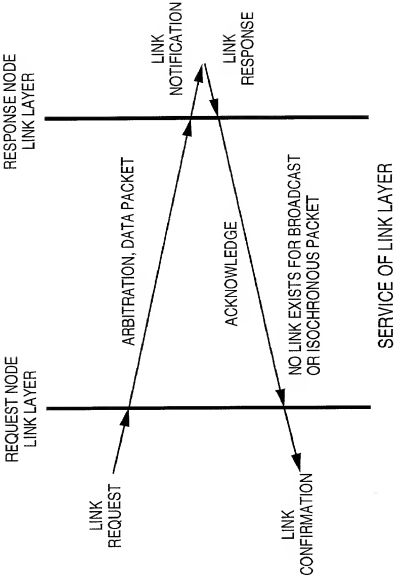


FIG. 5

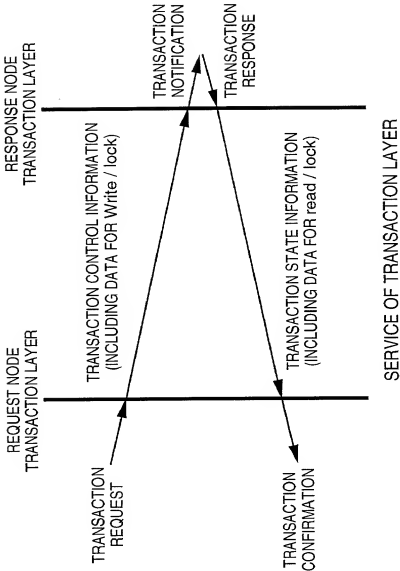
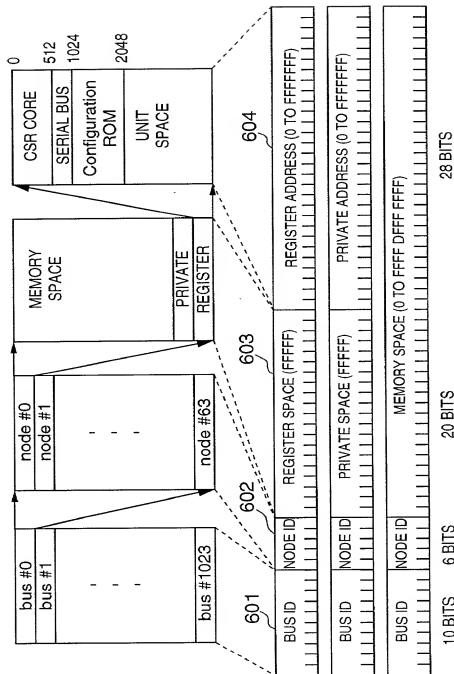


FIG. 6





**FIG. 8**  
SERIAL BUS REGISTER

OFFSET (HEXADECEIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER CONCERNING POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	
214-218		CONTROL RETRY OF TRANSACTION LAYER
		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISOCRONOUS TRANSFER BANDWIDTH
224-228	CHANNELS_AVAILABLE	MANAGE ISOCRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	DIAGNOSTIC REGISTER
230	MAINT_UTILITY	
234-3FC		RESERVED



**FIG. 9**

## CONFIGURATION ROM OF MINIMUM FORMAT

8 bits	24 bits
01	VENDOR ID

**FIG. 10**

Bus Info Block Length	ROM Length	CRC	
Bus Info Block			1001
Root Directory			1002
Node dependent info directory			1003
Unit directories			1004
Root & unit leaves			1005
Vendor dependent information			1006

**FIG. 11**

SERIAL BUS DEVICE REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
800-FFC		RESERVED
1000-13FC	TOPOLOGY_MAP	INFORMATION ABOUT CONFIGURATION OF SERIAL BUS
1400-1FFC		RESERVED
2000-2FFC	SPEED_MAP	INFORMATION ABOUT TRANSFER SPEED OF SERIAL BUS
3000-FFFC		RESERVED

**FIG. 12**

SECTIONAL VIEW OF CABLE

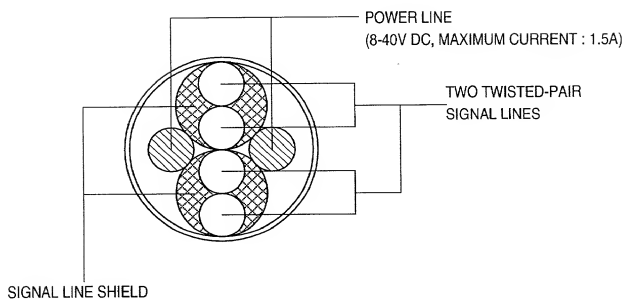
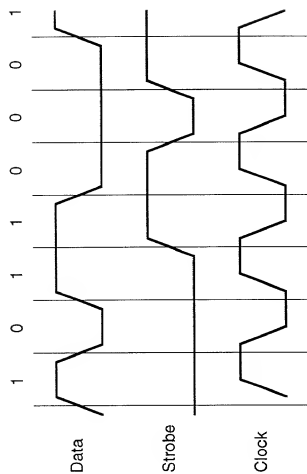
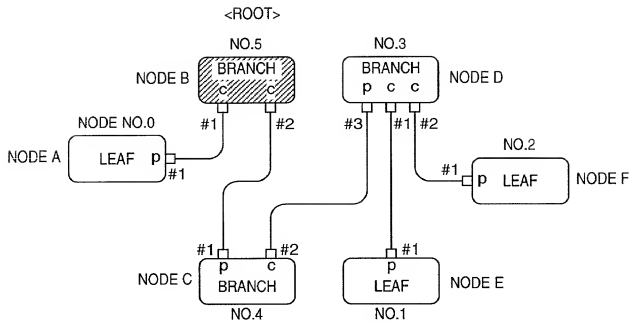


FIG. 13

EXCLUSIVE OR SIGNAL OF Data AND Strobe



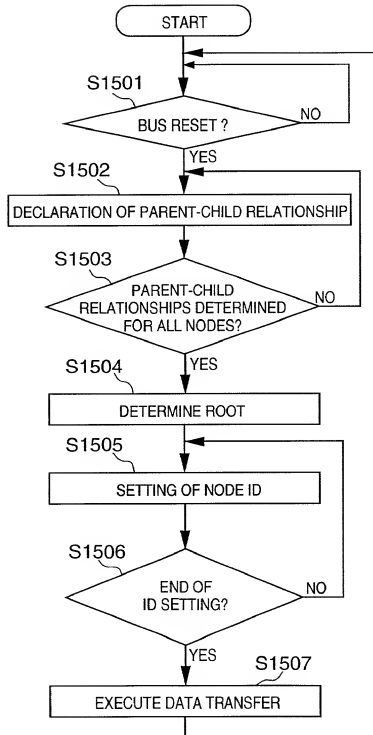
**FIG. 14**

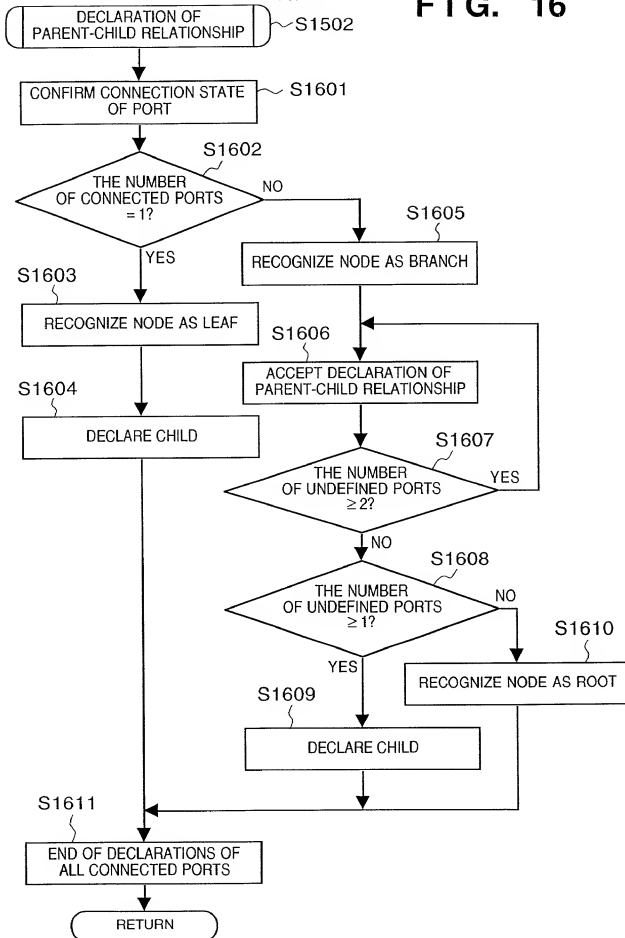
□ : PORT

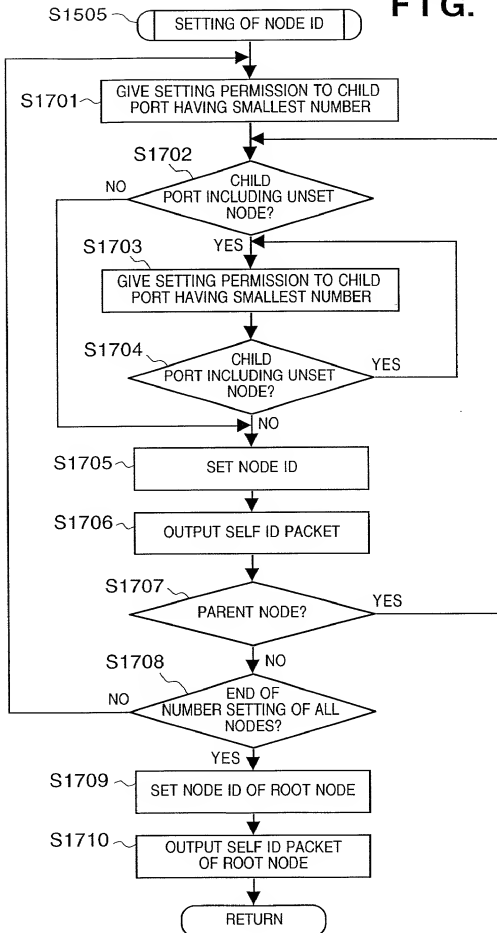
p : PORT CONNECTED TO PARENT NODE

c : PORT CONNECTED TO CHILD NODE

FIG. 15

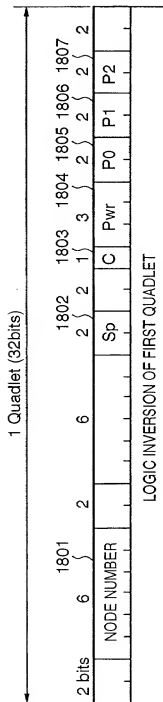






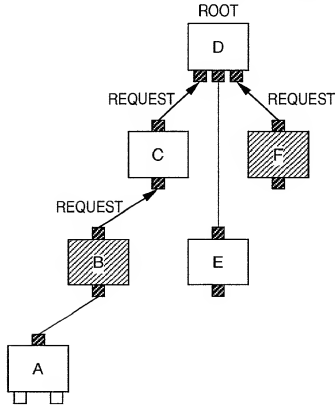


**FIG. 18**



**FIG. 19A**

REQUESTS FOR BUS ACCESS

**FIG. 19B**

PERMISSION FOR BUS ACCESS

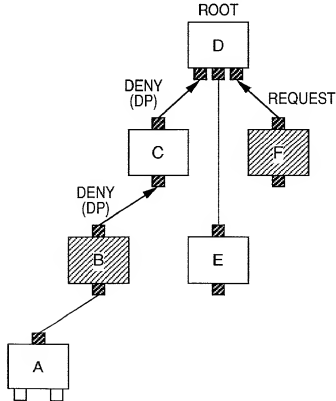


FIG. 20

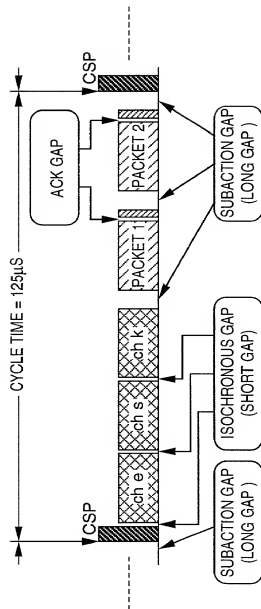


FIG. 21

PACKET OF ISOCRONOUS DATA

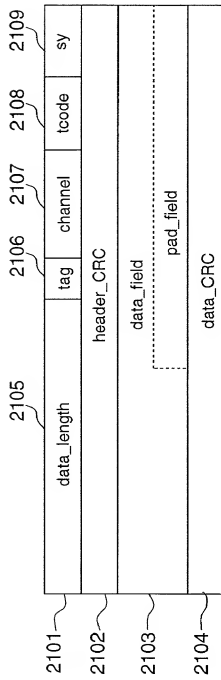


FIG. 22

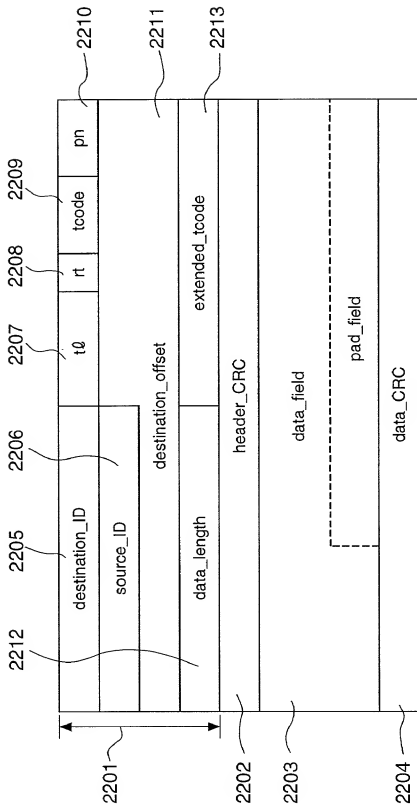
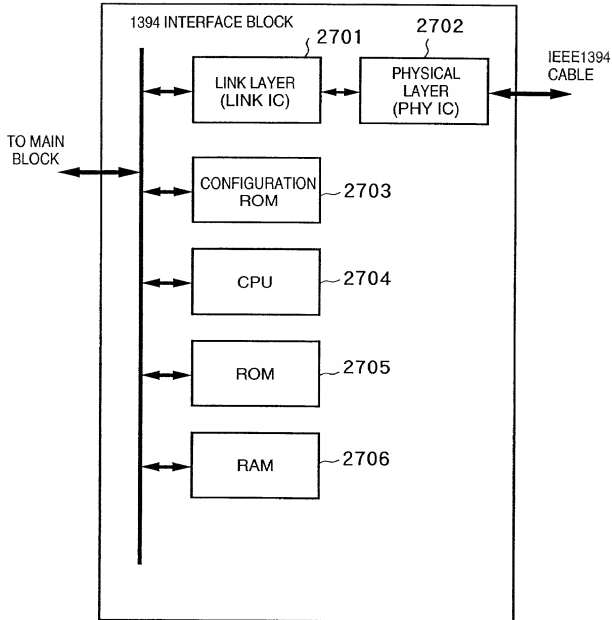
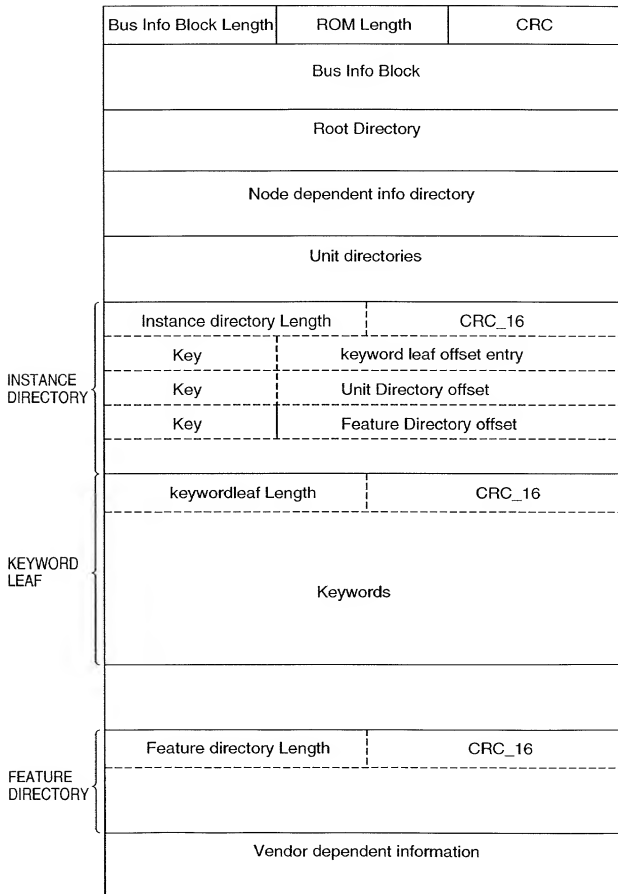
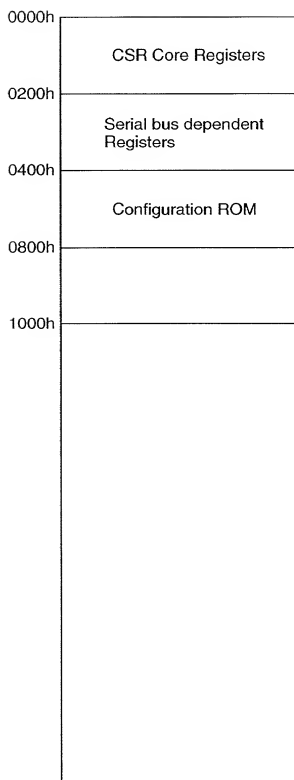


FIG. 23



**FIG. 24**

**FIG. 25**

0000h  
 0001h  
 0002h  
 0003h  
 0004h  
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 0397h  
 0398h  
 0399h  
 039Ah  
 039Bh  
 039Ch  
 039Dh  
 039Eh  
 039Fh  
 03A0h  
 03A1h  
 03A2h  
 03A3h  
 03A4h  
 03A5h  
 03A6h  
 03A7h  
 03A8h  
 03A9h  
 03AAh  
 03ABh  
 03ACh  
 03ADh  
 03AEh  
 03AFh  
 03B0h  
 03B1h  
 03B2h  
 03B3h  
 03B4h  
 03B5h  
 03B6h  
 03B7h  
 03B8h  
 03B9h  
 03BAh  
 03BBh  
 03BCh  
 03BDh  
 03BEh  
 03BFh  
 03C0h  
 03C1h  
 03C2h  
 03C3h  
 03C4h  
 03C5h  
 03C6h  
 03C7h  
 03C8h  
 03C9h  
 03CAh  
 03CBh  
 03CCh  
 03CDh  
 03CEh  
 03CFh  
 03D0h  
 03D1h  
 03D2h  
 03D3h  
 03D4h  
 03D5h  
 03D6h  
 03D7h  
 03D8h  
 03D9h  
 03DAh  
 03DBh  
 03DCh  
 03DDh  
 03DEh  
 03DFh  
 03E0h  
 03E1h  
 03E2h  
 03E3h  
 03E4h  
 03E5h  
 03E6h  
 03E7h  
 03E8h  
 03E9h  
 03EAh  
 03EBh  
 03ECh  
 03EDh  
 03EEh  
 03EFh  
 03F0h  
 03F1h  
 03F2h  
 03F3h  
 03F4h  
 03F5h  
 03F6h  
 03F7h  
 03F8h  
 03F9h  
 03FAh  
 03FBh  
 03FCh  
 03FDh  
 03FEh  
 03FFh  
 0400h  
 0401h  
 0402h  
 0403h  
 0404h  
 0405h  
 0406h  
 0407h  
 0408h  
 0409h  
 040Ah  
 040Bh  
 040Ch  
 040Dh  
 040Eh  
 040Fh  
 0410h  
 0411h  
 0412h  
 0413h  
 0414h  
 0415h  
 0416h  
 0417h  
 0418h  
 0419h  
 041Ah  
 041Bh  
 041Ch  
 041Dh  
 041Eh  
 041Fh  
 0420h  
 0421h  
 0422h  
 0423h  
 0424h  
 0425h  
 0426h  
 0427h  
 0428h  
 0429h  
 042Ah  
 042Bh  
 042Ch  
 042Dh  
 042Eh  
 042Fh  
 0430h  
 0431h  
 0432h  
 0433h  
 0434h  
 0435h  
 0436h  
 0437h  
 0438h  
 0439h  
 043Ah  
 043Bh  
 043Ch  
 043Dh  
 043Eh  
 043Fh  
 0440h  
 0441h  
 0442h  
 0443h  
 0444h  
 0445h  
 0446h  
 0447h  
 0448h  
 0449h  
 044Ah  
 044Bh  
 044Ch  
 044Dh  
 044Eh  
 044Fh  
 0450h  
 0451h  
 0452h  
 0453h  
 0454h  
 0455h  
 0456h  
 0457h  
 0458h  
 0459h  
 045Ah  
 045Bh  
 045Ch  
 045Dh  
 045Eh  
 045Fh  
 0460h  
 0461h  
 0462h  
 0463h  
 0464h  
 0465h  
 0466h  
 0467h  
 0468h  
 0469h  
 046Ah  
 046Bh  
 046Ch  
 046Dh  
 046Eh  
 046Fh  
 0470h  
 0471h  
 0472h  
 0473h  
 0474h  
 0475h  
 0476h  
 0477h  
 0478h  
 0479h  
 047Ah  
 047Bh  
 047Ch  
 047Dh  
 047Eh  
 047Fh  
 0480h  
 0481h  
 0482h  
 0483h  
 0484h  
 0485h  
 0486h  
 0487h  
 0488h  
 0489h  
 048Ah  
 048Bh  
 048Ch  
 048Dh  
 048Eh  
 048Fh  
 0490h  
 0491h  
 0492h  
 0493h  
 0494h  
 0495h  
 0496h  
 0497h  
 0498h  
 0499h  
 049Ah  
 049Bh  
 049Ch  
 049Dh  
 049Eh  
 049Fh  
 04A0h  
 04A1h  
 04A2h  
 04A3h  
 04A4h  
 04A5h  
 04A6h  
 04A7h  
 04A8h  
 04A9h  
 04AAh  
 04ABh  
 04ACh  
 04ADh  
 04AEh  
 04AFh  
 04B0h  
 04B1h  
 04B2h  
 04B3h  
 04B4h  
 04B5h  
 04B6h  
 04B7h  
 04B8h  
 04B9h  
 04BAh  
 04BBh  
 04BCh  
 04BDh  
 04BEh  
 04BFh  
 04C0h  
 04C1h  
 04C2h  
 04C3h  
 04C4h  
 04C5h  
 04C6h  
 04C7h  
 04C8h  
 04C9h  
 04CAh



**FIG. 26**

SERIAL BUS REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER CONCERNING POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214-218		RESERVED
21C	BUS_MANAGER_ID	NODE TRANSFER OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISCHRONOUS TRANSFER BANDWIDTH
224-228	CHANNELS_AVAILABLE	MANAGE ISCHRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	DIAGNOSTIC REGISTER
230	MAINT_UTILITY	
234-3FC		RESERVED
240	REMOTE_BUS_RESET	BUS RESET NOTIFICATION ON REMOTE BUS

FIG. 27

FIG. 27

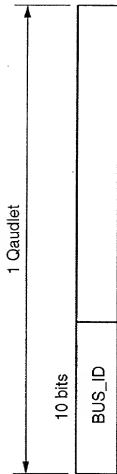
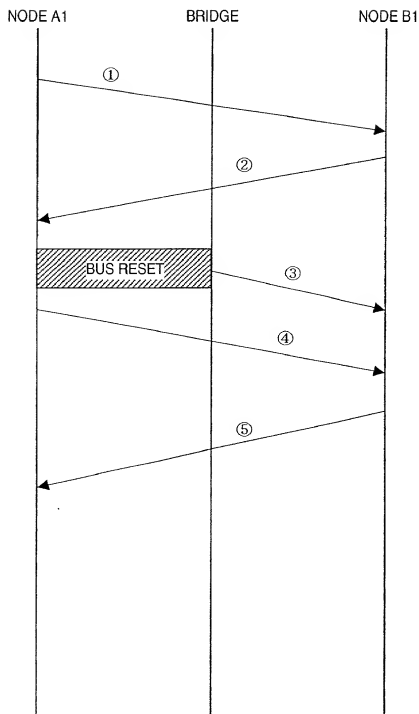
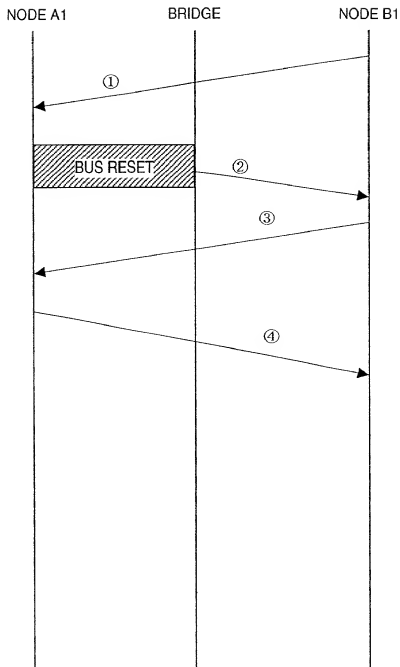


FIG. 28

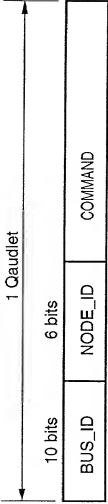


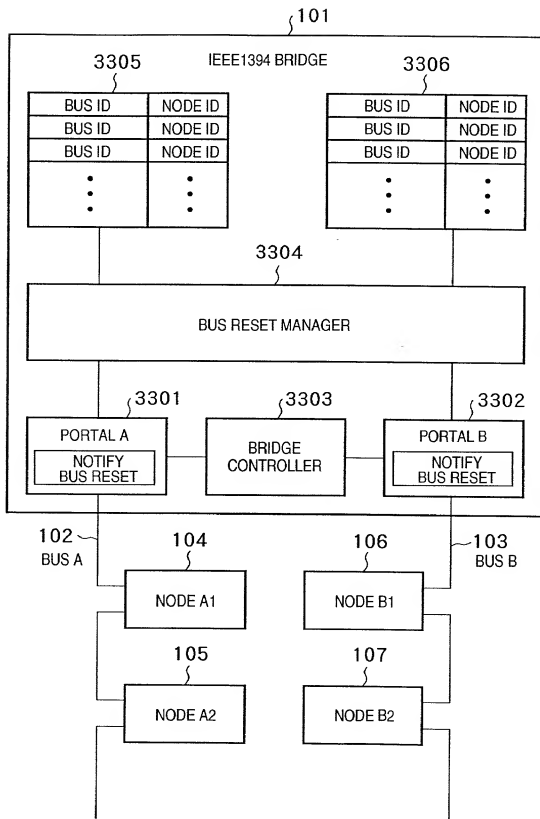
**FIG. 29**

**FIG. 30**  
SERIAL BUS REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER CONCERNING POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISOCRONOUS TRANSFER BANDWIDTH
224~228	CHANNELS_AVAILABLE	MANAGE ISOCRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	DIAGNOSTIC REGISTER
230	MAINT_UTILITY	
234~3FC		RESERVED
240	REMOTE_BUS_RESET	BUS RESET NOTIFICATION ON REMOTE BUS
244	NOTIFY_BUS_RESET	RESERVATION OF BUS RESET NOTIFICATION ON REMOTE BUS

FIG. 31



**FIG. 32**

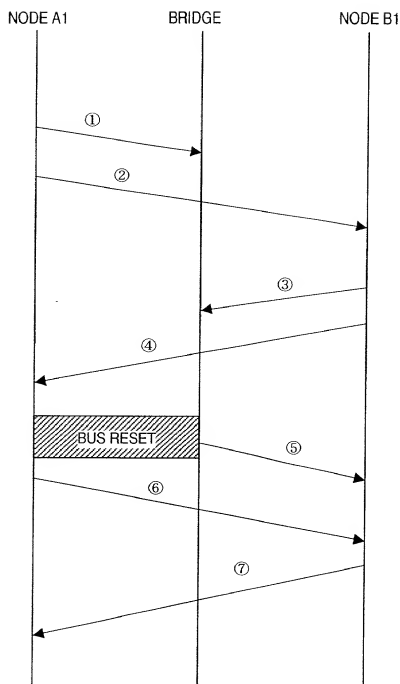
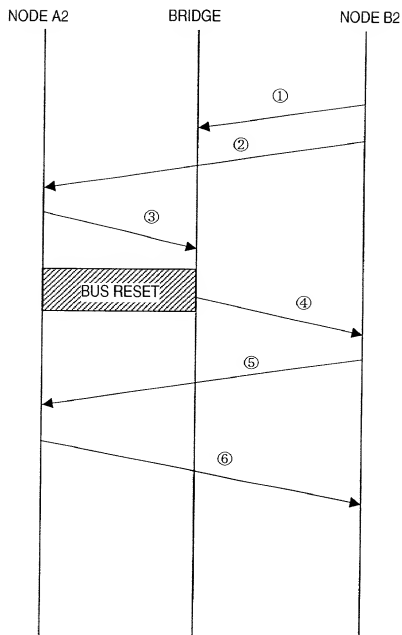
**FIG. 33**



FIG. 34



0000  
 0001  
 0010  
 0011  
 0100  
 0101  
 0110  
 0111  
 1000  
 1001  
 1010  
 1011  
 1100  
 1101  
 1110  
 1111

FIG. 35

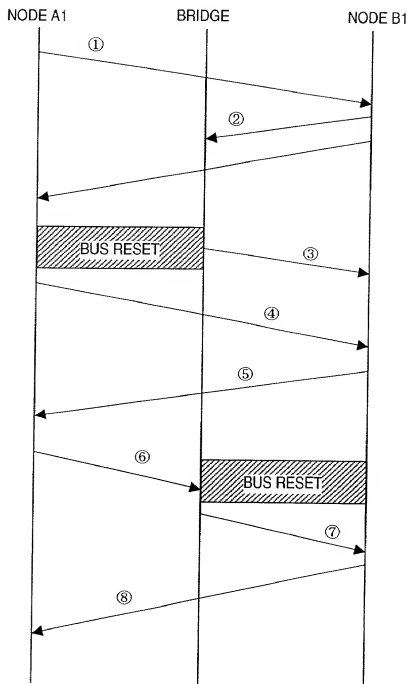


FIG. 36

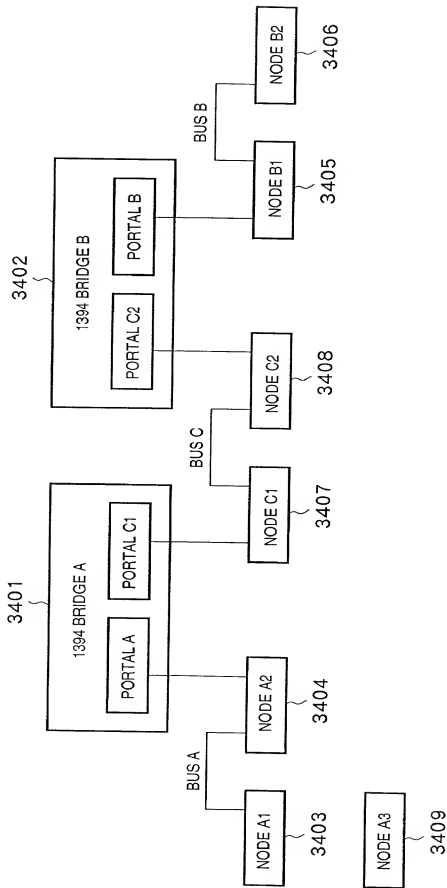
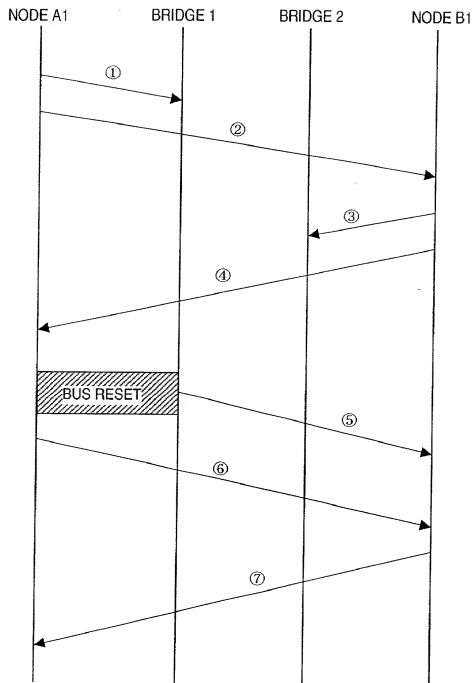
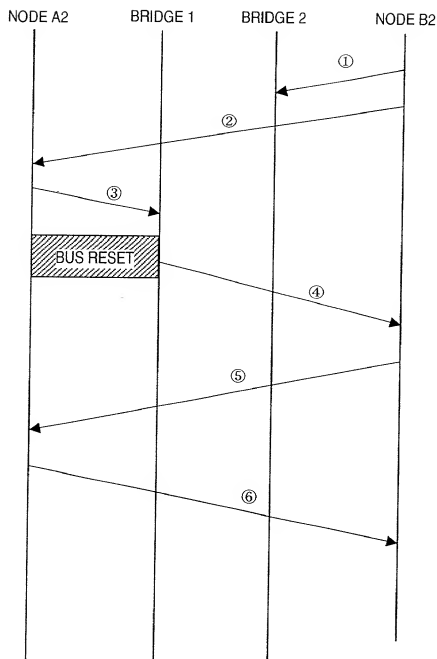


FIG. 37



**FIG. 38**

**FIG. 39**  
SERIAL BUS REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER CONCERNING POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE ISOCRONOUS TRANSFER BANDWIDTH
224~228	CHANNELS_AVAILABLE	MANAGE ISOCRONOUS TRANSFER CHANNEL NUMBER
22C	MAINT_CONTROL	DIAGNOSTIC REGISTER
230	MAINT_UTILITY	
234~23C		RESERVED



FIG. 41

